

P10-1344

Company called: MICHELIN Recherche et Technique S.A.

Title: AIRCRAFT TIRE REINFORCEMENTS.

ABSTRACT

An aircraft tire, inflated to high pressure, with a tread (7), a crown reinforcement (6) and a radial carcass reinforcement (1) comprising at least two axially inner plies (1A and 1B) formed of textile reinforcement elements, said two plies being wound around at least one bead wire (3) within each bead (2) from the inside to the outside, forming upturns (10A and 10B) and at least one axially outer ply (1C, 1D) of textile elements which is superposed radially on the inner plies (1A and 1B) beneath the crown reinforcement (6) to extend along the upturns (10A and 10B) of said inner plies in the beads (2), characterized in that the radial reinforcement elements of all the plies (1A, 1B, 1C, 1D, ..) of the carcass reinforcement (1) are cables formed by plying at least one yarn having a modulus of elasticity in tension at least equal to 2000 cN/tex, with a yarn, whether overtwisted or not, having an modulus of elasticity in tension at most equal to 1500 cN/tex, said moduli of elasticity of said yarns being measured for a tensile force equal to 0.1 times the breaking load of a yarn.

Fig. 1